

PROJECT DESCRIPTION

GENERAL

THIS PROJECT INVOLVES THE INSTALLATION OF A NEW INTERSECTION CONTROL BEACON AND STREET LIGHTING AT THE INTERSECTION OF MD 272 AND TIGER DRIVE IN CECIL COUNTY. MD 272 IS ASSUMED TO RUN IN A NORTH-SOUTH DIRECTION.

INTERSECTION OPERATION

THE INTERSECTION WILL OPERATE IN A NEMA FLASHING MODE WITH MD 272 INDICATIONS FLASHING YELLOW AND THE TIGER DRIVE INDICATIONS FLASHING RED.

CONTROLLER REQUIREMENTS

INSTALL A NEMA SIZE "6" BASE MOUNTED CABINET, TWO-CIRCUIT FLASHER UNIT WITH PHOTO-CELL, DIMMER SWITCH AND INTERSECTION MONITOR II, WITH BATTERY BACK-UP FOR PHONE DROP.

SPECIAL NOTE

UPON COMPLETION OF THIS PROJECT, THE CONTRACTOR SHALL NOTIFY MR. ROBERT SNYDER OF SHA AT (410) 787-7635 TO ARRANGE FOR THE PHONE LINE INSTALLATION. THE CONTRACTOR IS TO PROVIDE MR. SNYDER WITH THE NEAREST STREET ADDRESS, ZIPCODE AND PHONE NUMBER.

MAINTENANCE OF TRAFFIC

THE FOLLOWING TRAFFIC CONTROL STANDARDS SHALL BE REFERENCED FOR THE PROJECT.

STANDARD NO. MD-104.00 - 104.00-12 STANDARD NO. MD-104.46-01 (CENTER LANE CLOSURE)
STANDARD NO. MD-104.31-01 (FLAGGING OPERATION) STANDARD NO. MD-104.35-01 (LANE SHIFT)
STANDARD NO. MD-104.49-01 (SHOULDER WORK) STANDARD NO. MD-104.33-02 (SHOULDER WORK)
STANDARD NO. MD-104.44-01 (LEFT-LANE CLOSURE) STANDARD NO. MD-104.32-02 (INTERSECTION FLAGGING OPERATION)
STANDARD NO. MD-104.45-01 (RIGHT-LANE CLOSURE)

PROJECT CONTACTS

THE CONTACT PERSONS FOR SHA ARE AS FOLLOWS:

MR. RICHARD LINDSAY
DISTRICT #22 ENGINEER
PHONE: (410) 778-3061

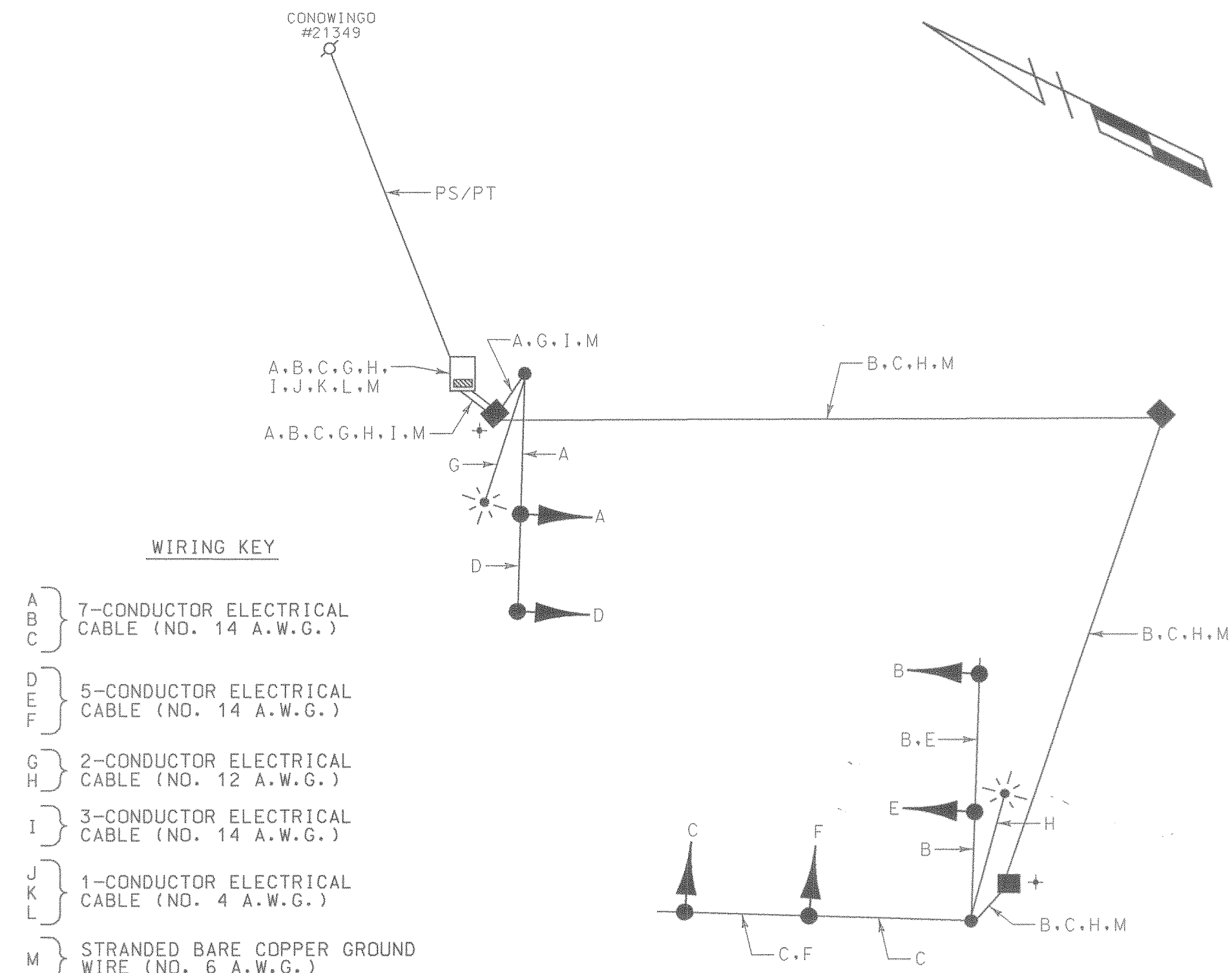
MR. ROBERT KIEL
ASSISTANT DISTRICT ENGINEER - TRAFFIC
PHONE: (410) 778-3061

MR. TERRY WRIGHT
ASSISTANT DISTRICT ENGINEER - MAINTENANCE
PHONE: (410) 778-3061

MR. DENNIS NORTH
DISTRICT #22 UTILITIES ENGINEER
PHONE: (410) 778-3061

MR. RICHARD L. DAFF, SR.
CHIEF, TRAFFIC OPERATIONS DIVISION
PHONE: (410) 787-7630

WIRING DIAGRAM



PS/PT - PROPOSED UNDERGROUND ELECTRICAL AND TELEPHONE SERVICE

+ - 3/4 IN. X 10 FT. GROUND ROD

EQUIPMENT LIST "A"

A. EQUIPMENT TO BE SUPPLIED BY SHA

ITEM NO.	QUANTITY	DESCRIPTION
9012	4 EACH	12 IN., ONE-WAY, ONE-SECTION (Y) BLACK TRAFFIC SIGNAL HEAD - MAST ARM MOUNT.
9012	2 EACH	12 IN., ONE-WAY, ONE-SECTION (R) BLACK TRAFFIC SIGNAL HEAD - MAST ARM MOUNT.
9081	1 EACH	TWO-CIRCUIT FLASHER UNIT, DIMMER SWITCH AND INTERSECTION MONITOR II WITH BACK-UP FOR PHONE DROP HOUSED IN A NEMA SIZE "6" BASE MOUNTED CABINET.
9089	22 S.F.	SHEET ALUMINUM SIGNS TO CONSIST OF : - 2 EACH D-3(1) SIGN "TIGER DR" (VARIABLE X 16 IN.) DUAL FACED - MAST ARM MOUNT.
9112	1 EACH	27 FT. STEEL POLE WITH TWIN 50 FT./50 FT. MAST ARMS AND ANCHOR BOLTS
9000	1 EACH	27 FT. STEEL POLE WITH 40 FT. SINGLE MAST ARM AND ANCHOR BOLTS

EQUIPMENT LIST "B"

B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY THE CONTRACTOR

ITEM NO.	QUANTITY	DESCRIPTION
1001	1 EACH	MAINTENANCE OF TRAFFIC PER ASSIGNMENT
2001	3 C.Y.	TEST PIT EXCAVATION
5002	300 FT.	6 IN. WHITE PERMANENT PREFORMED PAVEMENT MARKING TAPE
5006	2 EACH	PERMANENT PREFORMED PAVEMENT MARKING ARROW
5007	190 FT.	6 IN. YELLOW PERMANENT PREFORMED PAVMENT MARKING TAPE
5013	350 FT.	REMOVE EXISTING PAVEMENT MARKINGS - ANY WIDTH
5014	20 EACH	REMOVE EXISTING PAVEMENT MARKING LETTER OR ARROW
6001	16 S.F.	4 IN. CONCRETE SIDEWALK
8001	8 C.Y.	FURNISH AND INSTALL CONCRETE FOR SIGNAL FOUNDATION
8006	1 EACH	CUT, CLEAN, GALVANIZE AND CAP TRAFFIC SIGNAL STRUCTURE
8011	6 EACH	INSTALL SIGNAL HEAD (ANY TYPE)
8020	1 EACH	INSTALL CONTROLLER AND CABINET - BASE MOUNT
8024	75 FT.	FURNISH AND INSTALL 2 IN. SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED
8027	75 FT.	FURNISH AND INSTALL 3 IN. SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED
8030	50 FT.	FURNISH AND INSTALL 4 IN. SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED
8032	200 L.F.	FURNISH AND INSTALL 4 IN. SCHEDULE 80 RIGID PVC CONDUIT - BORED
8033	3 EACH	FURNISH AND INSTALL HANDHOLE
8034	3 EACH	FURNISH AND INSTALL GROUND ROD - 3/4 IN. DIAMETER X 10 FT. LENGTH
8043	60 L.F.	FURNISH AND INSTALL ELECTRICAL CABLE - 3 CONDUCTOR (NO. 14 A.W.G.)
8044	70 L.F.	FURNISH AND INSTALL ELECTRICAL CABLE - 5 CONDUCTOR (NO. 14 A.W.G.)
8045	670 L.F.	FURNISH AND INSTALL ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 A.W.G.)
8046	385 L.F.	FURNISH AND INSTALL ELECTRICAL CABLE - 2 CONDUCTOR (NO. 12 A.W.G.)
8049	260 L.F.	FURNISH AND INSTALL NO. 6 A.W.G. STRANDED BARE COPPER GROUND WIRE
8050	45 L.F.	FURNISH AND INSTALL ELECTRICAL CABLE 1-CONDUCTOR NO. 4 A.W.G. - THHN/THWN
8054	22 S.F.	INSTALL OVERHEAD SIGN
8056	2 EACH	FURNISH AND INSTALL 250 WATT HPS LUMINAIRE WITH PHOTOCELL
8057	2 EACH	FURNISH AND INSTALL 20 FT. LIGHTING BRACKET ARM FOR TRAFFIC SIGNAL STRUCTURE
8070	1 EACH	FURNISH AND INSTALL CONTROL AND DISTRIBUTION EQUIPMENT (120/240V, 1 PHASE 3 WIRE SYST)
8073	1 EACH	FURNISH AND INSTALL PHOTOCELL
8079	1 EACH	INSTALL STEEL POLE AND SINGLE MAST ARM (ANY SIZE)
8080	1 EACH	INSTALL STEEL POLE AND TWIN MAST ARM (ANY SIZE)
NEG.	1 EACH	RELOCATE EXISTING SIGN AND SUPPORT

PHASE CHART

	1	2	3	4	5	6	
	(Y)	(Y)	(Y)	(Y)	(R)	(R)	
FLASHING OPERATION	FL/Y	FL/Y	FL/Y	FL/Y	FL/R	FL/R	

WR&A
Whitman, Requardt and Associates
Engineers and Planners
2315 Saint Paul Street
Baltimore, Maryland 21218
(410) 235-3450

REVISIONS	APPROVALS	REVISIONS
	ASSISTANT DIVISION CHIEF	
	ASST. DISTRICT ENGINEER, TRAFFIC	
	CHIEF, TRAFFIC ENGINEERING DESIGN DIVISION	
	DIRECTOR, OFFICE OF TRAFFIC & SAFETY	



MARYLAND DOT - STATE HIGHWAY ADMINISTRATION
Office of Traffic & Safety
TRAFFIC ENGINEERING DESIGN DIVISION
GENERAL INFORMATION SHEET
MD 272 AND TIGER DRIVE

DATE: 7-17-98	DRAWN BY: S.BLDSS	F.A.P. NO.	PLAN SHEET NO.:	SHEET NO.
SCALE: NONE	DESIGNED BY: N.LEARY	S.H.A. NO. AW276ASC/AW276B5C		
APPROVED BY:	CHECKED BY: T.HANNAN	COUNTY CECIL		2 OF 2